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**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

221801-1010

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

10/500,601

INTERNATIONAL APPLICATION NO.

PCT/DE02/04754

INTERNATIONAL FILING DATE

31 December 2002

PRIORITY DATE CLAIMED

31 December 2001

TITLE OF INVENTION

Methods for Detecting Nucleic Acids While Using Solid ... (TRAMP)

APPLICANT(S) FOR DO/EO/US

REPP, Reinald

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☐ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☒ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☐ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4))
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☐ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☒ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information: *Return Postcard; Certificate of Express Mail;*

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*Copy of Notification of Missing Requirements;
Response to Notice to File Missing Requirements*

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) 10/500,601		INTERNATIONAL APPLICATION NO. PCT/DE02/04754		ATTORNEY'S DOCKET NUMBER 221801-1010	
The following fees have been submitted				CALCULATIONS PTO USE ONLY	
21. <input type="checkbox"/> Basic national fee..... \$300				\$	
22. <input type="checkbox"/> Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)..... \$100 All other situations..... \$200				\$	
23. <input type="checkbox"/> Search fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 International Search Report prepared and provided to the Office..... \$400 All other situations..... \$500				\$	
TOTAL OF 21, 22 and 23 =				\$	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.					
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100 =	/50 =		x \$250	\$	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	- 20 =		x \$ 50	\$	
Independent claims	- 3 =		x \$200	\$	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ \$360	\$	
TOTAL OF ABOVE CALCULATIONS =				\$	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					
SUBTOTAL =				\$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				+	\$
TOTAL NATIONAL FEE =				\$	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				+	\$
TOTAL FEES ENCLOSED =				\$ 0.00	
				Amount to be refunded:	\$
				Amount to be charged:	\$
<p>a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>20-0778</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p>					
<p>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>LINDER, Christopher B. THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP 100 Galleria Parkway, N.W. Suite 1750 Atlanta, GA 30339-5948, US</p>					
				<p style="text-align: center;">SIGNATURE</p> <p style="text-align: center;"><u>Christopher B. Linder</u></p> <p style="text-align: center;">NAME</p>	
				<p style="text-align: center;"><u>47.751</u></p> <p style="text-align: center;">REGISTRATION NUMBER</p>	



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
10/500,601	Reinald Repp	221801-1010

INTERNATIONAL APPLICATION NO.

PCT/DE02/04754

I.A. FILING DATE	PRIORITY DATE
12/31/2002	12/31/2001

Linder, Christopher B.
 Thomas Kayden Horstemeyer & Risley
 100 Galleria Parkway N W
 Suite 1750
 Atlanta, GA 30339-5948

CONFIRMATION NO. 7727

371 FORMALITIES LETTER



OC000000014757399

Date Mailed: 12/15/2004

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Indication of Small Entity Status
- Copy of the International Application filed on 06/30/2004
- Copy of the International Search Report filed on 06/30/2004
- Biochemical Sequence Diskette filed on 06/30/2004
- Biochemical Sequence Listing filed on 06/30/2004
- Small Entity Statement filed on 06/30/2004
- Copy of references cited in ISR filed on 06/30/2004
- U.S. Basic National Fees filed on 06/30/2004
- Priority Documents filed on 06/30/2004

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.

The following items **MUST** be furnished within the period set forth below:

- The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CFR 1.821-1.825 for the following reason(s):
 - RAW SEQUENCE LISTING ERROR REPORT
 - APPLICANT MUST PROVIDE:
 - An initial or substitute paper copy or compact disc of the "Sequence Listing," as well as an amendment directing its entry into the specification.

THOMAS, KAYDEN
 HORSTEMEYER & RISLEY, L.L.P.

Resp to missing Requir
DOCKETED
Due 2/15/05

DEC 20 2004

- For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:
 - For Rules Interpretation, call (703) 308-4216
 - To Purchase PatentIn Software, call (703) 306-2600
 - For PatentIn Software Program Help, call (703) 306-4119 or e-mail at patin21help@uspto.gov or patin3help@uspto.gov

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

DEBORAH D WILLIAMS

Telephone: (703) 305-3744

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO.
10/500,601	PCT/DE02/04754	221801-1010

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Confirmation No. 7727

REPP, Reinald

Serial No: 10/500,601

Docket No.: 221801-1010

PCT Filing Date: 31 December 2002

For: METHODS FOR DETECTING NUCLEIC ACIDS WHILE USING SOLID
PHASE BOUND PRIMERS AND CLEAVING THE PRODUCTS OF A
CYCLIC AMPLIFICATION REACTION (TRAP RELEASE PRIMER
AMPLIFICATION [TRAMP])

RESPONSE TO NOTICE TO FILE MISSING REQUIREMENTS
UNDER 35 U.S.C. 371

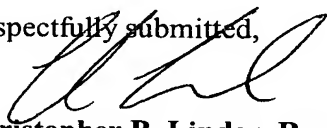
Mail Stop PCT (DO/EO/US)
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Notice to File Missing Requirements mailed on December 15, 2004, the Applicant herewith submits a signed Combined Declaration and Power of Attorney and requested Sequence Listings Diskette in connection with the above-identified application. Ms. Deborah Williams told us in a telephone conference that an amendment accompanying the Sequence Listing Diskette was not necessary.

If the Office believes that additional fees may be required, the Office is authorized to charge any deficiency to Deposit Account No. 20-0778.

Respectfully submitted,


Christopher B. Linder, Reg. No. 47,751
Attorney for Applicant

**THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.**

100 Galleria Parkway, NW, Suite 1750
Atlanta, Georgia 30339-5948

Date:

2/10/05
Customer No: 24504

IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)
UNDER THE PATENT COOPERATION TREATY

In Re Application of: **REPP, Reinald**
U.S. Serial No.: 10/500,601
(Nat. Phase of Int. Appl. No.: PCT/DE02/04754)
U.S. Filing Date: June 30, 2004
(Int. Filing Date: 31 December 2002)
Title: METHODS FOR DETECTING NUCLEIC ACIDS WHILE USING SOLID PHASE BOUND
PRIMERS AND CLEAVING THE PRODUCTS OF A CYCLIC AMPLIFICATION REACTION
(TRAP RELEASE PRIMER AMPLIFICATION [TRAMP])
Atty Docket No.: 221801-1010

CERTIFICATE OF MAILING UNDER 37 CFR 1.10

Mail Stop PCT (DO/EO/US)
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

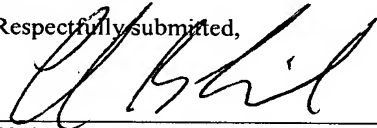
Sir:

Enclosed for filing in the above-captioned International application are the following documents:

1. Transmittal Letter (duplicate copy of fee page);
2. Copy of Notification of Missing Requirements under 35 U.S.C. 371;
3. Response to Notification of Missing Requirements under 35 U.S.C. 371;
4. Executed Combined Declaration and Power of Attorney;
5. Sequence Listings Diskette; and
6. Return receipt postcard.

The Commissioner is authorized to charge the deposit account No. 20-0778 any additional fees which may be required, or credit any overpayment to Deposit Account No. 20-0778.

Respectfully submitted,


Christopher B. Linder; Reg. No. 47,751
Attorney for Applicant

**THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.**

Suite 1750
100 Galleria Parkway, N.W.
Atlanta, GA 30339-5948
Telephone: (770) 933-9500
Facsimile: (770) 951-0933

I hereby certify that all correspondence listed above are being deposited for delivery to the above addressee, with the United States Postal Service as "Express Mail", under Express Mail Label No. **EV558415209US** service under 37 CFR 1.10 on the date indicated below.

Date: 10 February 2005


Lara L. O'Brien